

Utah Pre - Engineering

Project Lead The Way Program (PLTW) -

Project Lead The Way (PLTW) is a powerful, academically rigorous program developed at the national level. In this program students are expected to take five applied courses along with four years of math (M), science (S), and language arts (LA) courses. PLTW should be taught through a carefully thought out plan.

Applied Courses

- Principles of Engineering (POE) Level 1
- Introduction to Engineering Design (IED) Level 1
- Digital Electronics (DE) Level 1
- Computer Integrated Manufacturing (CIM) Level 2
- Engineering Design and Development (EDD) Level 3

The suggested sequence layout:

						M	S	LA
Freshman	POE					EA	ES	LA9
Sophomore		IED		Level 2		G	B	LA10
Junior			DE	CIM	Level 3	IA	P	LA11
Senior	Level 1 Courses				EDD	PC	C	LA12

Project Lead The Way Program (PLTW) - Rural Utah Plan

Rural schools have challenges and concerns that create a need for flexible Pre-Engineering programs. PLTW could be taught in a rural Utah school through a three period a day program similar to the layout that follows.

The suggested sequence layout:

	POE	IED	DE	Level 2	Level 3	M	S	LA
Freshman		XXXXXX	XXXXXX			EA	ES	LA9
Sophomore	XXXXXX		XXXXXX			G	B	LA10
Junior	XXXXXX	XXXXXX		CIM		IA	P	LA11
Senior	Level 1 Courses				EDD	PC	C	LA12
	These courses could be taught on a 3-year rotation. This would only involve one period.			One Period each year	One Period each year			
	Three period per year							

Suggested Utah Academic Courses

- Math (M) – Elementary Algebra (EA), Geometry (G), Intermediate Algebra (IA), Pre-calculus (PC)
- Science (S) – Earth Systems (ES), Biology (B), Chemistry (C), Physics (P)
- Language Arts (LA) – Language Arts 9 (LA9), Language Arts 10 (LA10), Language Arts 11 (LA11), Language Arts 12 (LA12)